

Fwd. & Bwd. Refs.

Refine Search 09/192279**Search Results -**

| Terms | Documents |
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| L6 and (zero\$ same ((tag\$4 or label\$3) with decrypt\$3)) | 0 |

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Search History
DATE: Tuesday, June 07, 2005 [Printable Copy](#) [Create Case](#)

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Name Query
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DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD;
 THES=ASSIGNEE; PLUR=YES; OP=OR

L7 L6 and (zero\$ same ((tag\$4 or label\$3) with
 decrypt\$3))

0 L7

(5768384 | 4463250 | 5822739 | 5598477 | 5384846 |
L6 5420924 | 3833795 | 5818021 | 5426700 | 5367148 |
 5592561 | 6073114 | 4879747 | 5422954 | 6105004 |
 5666421)! [PN] or l2

45 L6

DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR

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| <u>L5</u> | (5768384 4463250 5822739 5598477 5384846 5420924 3833795 5818021 5426700 5367148 5592561 6073114 4879747 5422954 6105004 5666421)! [PN] or l2 | 28 <u>L5</u> |
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*DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD;
THES=ASSIGNEE; PLUR=YES; OP=OR*

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| <u>L3</u> | ('6442276' 'US 6442276B' 'US 5768384A' '5768384') [PN] | 4 <u>L3</u> |
| <u>L2</u> | ('6442276' 'US 6442276B' 'US 5768384A' '5768384') [URPN] | 12 <u>L2</u> |
| <u>L1</u> | 5768384.pn. or 6442276.pn. | 4 <u>L1</u> |

END OF SEARCH HISTORY

EAST For Forward/Backward Ref

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|---|------------------|---------|------------------|
| L1 | 4 | ((("5768384") or ("6442276")).PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/06/07 10:27 |
| L2 | 15 | ("5384846" "5420924" "5426700" "5592561" "5666421").PN. OR ("5768384"). URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/06/07 10:27 |
| L3 | 16 | ("3833795" "4463250" "4879747" "5367148" "5422954" "5592561" "5598477" "5768384" "5818021" "5822739" "6073114" "6105004").PN. OR ("6442276").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/06/07 10:28 |
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| L5 | 0 | L2 and (zero same ((tag\$4 or label\$3) with decrypt\$3)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/06/07 10:34 |
| L6 | 0 | L3 and (zero same ((tag\$4 or label\$3) with decrypt\$3)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/06/07 10:34 |
| L7 | 0 | L3 and zero and ((tag\$4 or label\$3) with decrypt\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/06/07 10:35 |
| L8 | 0 | L2 and zero and ((tag\$4 or label\$3) with decrypt\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/06/07 10:35 |

Refine Search 09/182279

Search Results -

| Terms | Documents |
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(5768384 | 4463250 | 5822739 | 5598477 | 5384846 | 5420924 | 3833795 | 5818021 | 5426700 | 5367148 | 5592561 | 6073114 | 4879747 | 5422954 | 6105004 | 5666421)! [PN] and ((crypto\$ or decrypt\$ or encrypt\$)

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with (tag\$ or label\$)) and zero\$

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5420924 | 3833795 | 5818021 | 5426700 | 5367148 |
5592561 | 6073114 | 4879747 | 5422954 | 6105004 |
5666421)! [PN] 16 L7

L6 ('6442276' | '5768384') [PN] 2 L6

L5 l2 and ((crypto\$ or decrypt\$ or encrypt\$) with (tag\$ or
label\$)) and zero\$ 1 L5

L4 l2 and ((crypto\$ or decrypt\$ or encrypt\$) with (tag\$ or
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Forward ref. *DB=PGPB, USPT; THES=ASSIGNEE; PLUR=YES; OP=OR*

L3 ('6442276' | '5768384') [URPN] and ((crypto\$ or
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with proto\$) 0 L3

DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR

L2 ('6442276' | '5768384') [URPN] 12 L2

cited closest ant L1 5768384.pn. or 6442276.pn. 2 L1

END OF SEARCH HISTORY

Not using "zero-knowledge protocol."[First Hit](#) [Fwd Refs](#)[Previous Doc](#)[Next Doc](#)[Go to Doc#](#)**End of Result Set**

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L9: Entry 1 of 1

File: USPT

Jun 16, 1998

US-PAT-NO: 5768384

DOCUMENT-IDENTIFIER: US 5768384 A

TITLE: System for identifying authenticating and tracking manufactured articles

DATE-ISSUED: June 16, 1998

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-----------------|--------|-------|----------|---------|
| Berson; William | Weston | CT | | |

ASSIGNEE-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY | TYPE CODE |
|-------------------|----------|-------|----------|---------|-----------|
| Pitney Bowes Inc. | Stamford | CT | | | 02 |

APPL-NO: 08/ 623078 [PALM]

DATE FILED: March 28, 1996

INT-CL: [06] H04 L 9/00

US-CL-ISSUED: 380/23; 380/51, 705/11, 705/28

US-CL-CURRENT: 705/50; 235/385, 380/51, 705/11, 705/28, 713/178

FIELD-OF-SEARCH: 380/51, 380/23, 283/74, 705/11, 705/28, 705/29

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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| PAT-NO | ISSUE-DATE | PATENTEE-NAME | US-CL |
|---|----------------|---------------|----------|
| <input type="checkbox"/> <u>5384846</u> | January 1995 | Berson et al | |
| <input type="checkbox"/> <u>5420924</u> | May 1995 | Berson et al. | |
| <input type="checkbox"/> <u>5426700</u> | June 1995 | Berson | |
| <input type="checkbox"/> <u>5592561</u> | January 1997 | Moore | 380/51 X |
| <input type="checkbox"/> <u>5666421</u> | September 1997 | Pastor et al. | 380/51 |

ART-UNIT: 224

PRIMARY-EXAMINER: Dombroske; George M.

ASSISTANT-EXAMINER: Felber; Joseph L.

ATTY-AGENT-FIRM: Reichman; Ronald Scolnick; Melvin J. Meyer; Robert

ABSTRACT:

This invention relates to a system for identifying, authenticating and tracking articles of manufacture throughout their manufacturing and distribution channels. The foregoing system utilizes: manufacturing meters that are located at authorized manufacturing locations and produce encrypted data that is uniquely associated with each manufactured article; a printer located at the authorized manufacturing locations so that the printer will print the information encrypted by the meter, which encrypted information is affixed to the manufactured article; a data center coupled to the manufacturing meters and located at a site remote from the manufacturing meters; means for producing information that identifies the manufactured articles; and a plurality of means located where the authenticity of the manufactured articles are checked by comparing the encrypted information on the article with the information produced that identifies the article.

22 Claims, 3 Drawing figures

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L9: Entry 1 of 1

File: USPT

Jun 16, 1998

DOCUMENT-IDENTIFIER: US 5768384 A

TITLE: System for identifying authenticating and tracking manufactured articles

Brief Summary Text (5):

A bar code is a set of binary numbers. It consists of black bars and white spaces. A wide black bar space signifies a one and a thin black bar or space signifies a zero. The binary numbers stand for decimal numbers or letters. There are several different kinds of bar codes. In each one, a number, letter or other character is formed by a certain number or bars and spaces.

Brief Summary Text (15):

Manufacturing meters are used to create unique encrypted labels or tags which are associated with and affixed to the manufactured article from the moment the article is manufactured. The label or tag contains a time stamp and some identification of the manufactured article. The manufactured article may be identified by the following manufacturing information: the location in which the article was manufactured; the machine that produced the article; the person who operated the machine that produced the article; and the serial number of the article, etc. The manufactured article may also be identified by having information that may be used downstream in the distribution chain. For instance, the customs rating code, and shipping manifest data. The manufacturing and distribution chain information is encrypted and/or secured with a digital signature and printed as a code on the aforementioned label or tag. The code may be encrypted and be visible or invisible to the unaided human eye. The data center is in periodic communication with the manufacturing meters and is used to distribute encryption certificates to the manufacturing meters, record the forensic integrity of the manufacturing meters and log the usage of the manufacturing meters. The scanners are used to read and determine the authenticity of the information printed on the tags or labels.

Detailed Description Text (10):

Bar code generator 45 will encode the information received from encryptor 43 to create a unique encrypted bar code that is associated with the article that was manufactured. Generator 45 is coupled to printer 54, which is located at the site that produced the manufactured article. Generator 45 will cause printer 54 to print a unique bar code on a product label or tag 55. The aforementioned bar code may be visible or invisible to the unaided human eye. Label or tag 55 is affixed to the manufactured article. The aforementioned bar code on tag 55 contains encrypted or digitally signed data files representing information that is unique to the article manufactured.

Detailed Description Text (11):

In order to ascertain if the article manufactured that has tag 55 affixed thereto is genuine and not diverted from its intended logistics channel, the bar code on tag 55 is scanned by scanner 56. The encrypted information contained in the bar code printed on tag 55 is retrieved and then compared against information retrieved from the scan of associated documents. For instance, scanner 56 may scan the information contained in invoice 26. It will be obvious to one skilled in the art

that many different associates documents pertaining to the manufactured article may be scanned by scanner 56. If the scanned information on tag 55 matches or is correctly related to the scanned information on invoice 26 the manufactured article is in the correct distribution channel and the article is genuine. If, for example the scanned article is genuine, but the scanned article does not belong to the articles covered by invoice 26, then the manufactured article is a forgery or diverted genuine article.

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L5: Entry 1 of 1

File: USPT

Aug 29, 2000

US-PAT-NO: 6111953

DOCUMENT-IDENTIFIER: US 6111953 A

TITLE: Method and apparatus for authenticating a document

DATE-ISSUED: August 29, 2000

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-------------------|-------------|-------|----------|---------|
| Walker; Jay S. | Ridgefield | CT | | |
| Schneier; Bruce | Minneapolis | MN | | |
| Jorasch; James A. | Stamford | CT | | |

ASSIGNEE-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY | TYPE CODE |
|---------------------|----------|-------|----------|---------|-----------|
| Walker Digital, LLC | Stamford | CT | | | 02 |

APPL-NO: 08/ 859722 [\[PALM\]](#)

DATE FILED: May 21, 1997

INT-CL: [07] [H04](#) [K](#) [1/00](#)

US-CL-ISSUED: 380/51; 380/55, 705/67, 713/179

US-CL-CURRENT: [380/51](#); [380/55](#), [705/67](#), [713/179](#)

FIELD-OF-SEARCH: 380/23, 380/25, 380/30, 380/51, 380/55, 705/67, 713/179

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

[Search Selected](#) [Search All](#) [Clear](#)

| PAT-NO | ISSUE-DATE | PATENTEE-NAME | US-CL |
|--|---------------|----------------|--------|
| <input type="checkbox"/> 3541960 | November 1970 | Dilsner et al. | |
| <input type="checkbox"/> 4385285 | May 1983 | Horst et al. | |
| <input type="checkbox"/> 4413951 | November 1983 | Allen, Jr. | |
| <input type="checkbox"/> 4725718 | February 1988 | Sansone et al. | 380/51 |
| <input type="checkbox"/> 4816655 | March 1989 | Musyck et al. | |

| | | | | |
|--------------------------|----------------|---------------|-----------------|---------|
| <input type="checkbox"/> | <u>4893338</u> | January 1990 | Pastor | 380/51 |
| <input type="checkbox"/> | <u>5001752</u> | March 1991 | Fischer | 380/30 |
| <input type="checkbox"/> | <u>5090699</u> | February 1992 | Friedman | |
| <input type="checkbox"/> | <u>5142577</u> | August 1992 | Pastor | 380/51 |
| <input type="checkbox"/> | <u>5157726</u> | October 1992 | Merkle et al. | 380/55 |
| <input type="checkbox"/> | <u>5191613</u> | March 1993 | Graziano et al. | 380/25 |
| <input type="checkbox"/> | <u>5214702</u> | May 1993 | Fischer | 380/30 |
| <input type="checkbox"/> | <u>5239165</u> | August 1993 | Novak | |
| <input type="checkbox"/> | <u>5274567</u> | December 1993 | Kallin et al. | |
| <input type="checkbox"/> | <u>5341428</u> | August 1994 | Schatz | |
| <input type="checkbox"/> | <u>5373561</u> | December 1994 | Haber et al. | 380/25 |
| <input type="checkbox"/> | <u>5388158</u> | February 1995 | Berson | 338/2.3 |
| <input type="checkbox"/> | <u>5398283</u> | March 1995 | Virga | 380/54 |
| <input type="checkbox"/> | <u>5426700</u> | June 1995 | Berson | 380/51 |
| <input type="checkbox"/> | <u>5586036</u> | December 1996 | Pintsov | 380/51 |
| <input type="checkbox"/> | <u>5633932</u> | May 1997 | Davis et al. | 380/51 |
| <input type="checkbox"/> | <u>5652794</u> | July 1997 | Lepetit et al. | 380/51 |
| <input type="checkbox"/> | <u>5768384</u> | June 1998 | Berson | 380/51 |
| <input type="checkbox"/> | <u>5901224</u> | May 1999 | Hecht | 380/51 |
| <input type="checkbox"/> | <u>5912974</u> | June 1999 | Holloway et al. | 380/51 |
| <input type="checkbox"/> | <u>5923762</u> | July 1999 | Dolan et al. | 380/51 |
| <input type="checkbox"/> | <u>5923763</u> | July 1999 | Walker et al. | 380/51 |
| <input type="checkbox"/> | <u>5926551</u> | July 1999 | Dwork et al. | 380/51 |

OTHER PUBLICATIONS

Barton Crockett, "Chase Readies Wholesale Image Service", The American Banker, Sep. 13, 1993 at p. 15.

"Secure Check -4+ Compatible With HP Laserjet 4 Plus", PC Business Products, Jul. 1994.

Vern Lysford, "Create-A-Check Software Review", Management Accounting (USA), Sep. 1994 at p. 71.

Paul J. Geary and R. David Randall, "Create-A-Check Software", Massachusetts CPA Review, Spring 1995 at p. 32.

Geoffrey Wheelwright, "New Ways to Beat the Fraudsters", Financial Times, Jul. 5, 1995 at p. 4.

"Photo Checks Reduces Fraud, Approves Checks", NCUA Watch, Feb. 19, 1996 at p. 5.

"Toppan Printing Develops Transparent Bar Code System", Japan Economic Newswire, May 29, 1996.

Tony Timmons, "Check Fraud Costs Local Businesses More Than \$180 Million Annually", Central Penn Business Journal, Jul. 19, 1996 at p. 2.

ART-UNIT: 272

PRIMARY-EXAMINER: Cangialosi; Salvatore

ATTY-AGENT-FIRM: Alderucci; Dean Vogel; Peter J.

ABSTRACT:

A system is described whereby a document may be authenticated by an issuer thereof and verified by a recipient. Data from the document, at least a portion of which is specific to the document and identifies the document, is input to an authenticating device using an input device. A computing device, including a cryptographic processor and a memory, is coupled to said input device and receives a signal representing the data. The computing device performs a cryptographic operation based on the data to produce encrypted authentication data unique to the document. An output device is coupled to the computing device and affixes a representation of the authentication data on the document. A similar device, including a display device, is used to input the encrypted data, perform a cryptographic operation to decrypt the data, and compare the decrypted data with document identification data to verify the document. Encryption and decryption are performed using a private key/public key pair.

61 Claims, 5 Drawing figures

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L5: Entry 1 of 1

File: USPT

Aug 29, 2000

DOCUMENT-IDENTIFIER: US 6111953 A

TITLE: Method and apparatus for authenticating a document

Brief Summary Text (7):

U.S. Pat. No. 5,388,158 discloses an apparatus that affixes to a document a label created by scanning the document and producing a digital signal; the digital signal is compressed, encrypted, and coded as a two-dimensional bar code. This apparatus, like those discussed just above, creates a digital representation of an image of the document, as opposed to using specific data from the document.

Detailed Description Text (5):

example, physical features could include encapsulation, electronic features could include a silicon firewall, and combination features could include self-zeroizing, or otherwise volatile, ROM 104 or RAM 105 which electrically modifies its contents upon detection of tampering. Such tampering might include physically stressing the device, or electrically tampering by applying power to the device outside allowable current or voltage ranges, or outside an allowable AC frequency range. Alternatively, the housing 121 could be merely tamper-evident. In that case, the process of document verification should include checking the device for evidence of tampering. As will be appreciated by those skilled in the art, a great variety of tamper-resistant or tamper-evident techniques can be deployed, and will not be enumerated in detail herein. Therefore, as a matter of convenience, terms such as "tamper resistant" or "secure" shall be understood to refer to any of the aforementioned or other security measures throughout this discussion.

Detailed Description Text (6):

Besides the stamper 150, other devices for affixing the encrypted code to the document may be used; for example, a label printer which prints the code on an adhesive label and then sticks the label onto the document. The code itself may take any of a number of forms, including a human-readable character string, a graphic "watermark," a barcode sequence and a digital representation on a magnetic medium on the document. The terms "code" or "stamped code" shall be understood to refer to any such embodiment.

US Reference Patent Number (23):

5768384

CLAIMS:

22. A device according to claim 18, wherein the printer is configured for printing the representation of the encrypted authentication data on a label and affixing the label on the document.

46. A method according to claim 36, wherein said affixing step comprises printing the representation of the encrypted authentication data on a label and affixing the label on the document.

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